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C22C 27/04**B22F 3/26****B23H 1/06****C22C 1/05****C22C 29/08****C22C 32/00**(21) Application number: **60263892**(71) Applicant: **TOSHIBA CORP**(22) Date of filing: **26.11.85**(72) Inventor: **SEKIGUCHI SHIGEAKI****(54) ELECTRODE MATERIAL FOR ELECTRIC
DISCHARGE MACHINING AND ITS PRODUCTION**

(57) Abstract:

PURPOSE: To manufacture an electrode material for electric discharge machining capable of reducing electrode consumption in the working of supper hard materials, by mixing powdered W and powdered WC in a specific ratio, by subjecting the resulting powder mixture to compacting and sintering, and by infiltrating specific amounts of Cu or Ag into the obtained sintered compact.

CONSTITUTION: The powdered W and the powdered

WC are mixed in a ratio of 65:35W80:20, by weight, and the resulting powder mixture is compacted with proper addition of a binder. It is preferable that the average grain sizes of above-mentioned powdered W and powdered WC are regulated to 1.5W8 μ m and 1W6 μ m, respectively. Then the green compact obtained is sintered at about 1,000W1,200°C to be formed into a skeleton of sintered compact consisting of W and WC. Subsequently, Cu and/or Ag is infiltrated into the above skeleton at about 1,100W1,300°C so that W+WC=60W80wt% is satisfied. In this way, the electrode material for electric discharge machining can be obtained.

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